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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/601,247	06/20/2003	Xia Tang	02-641/EH-10787 6688	
34704	7590 08/30/2006		EXAMINER	
BACHMAN & LAPOINTE, P.C. 900 CHAPEL STREET			ZHENG, LOIS L	
SUITE 1201	SIREEI		ART UNIT	PAPER NUMBER
NEW HAVE	N, CT 06510		1742	
			DATE MAILED: 08/30/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

			<u> </u>	44				
Office Action Summary		Application No.	Applicant(s)					
		10/601,247	TANG ET AL.					
		Examiner	Art Unit					
		Lois Zheng	1742					
: ۔۔ Period for I	The MAILING DATE of this communication app Reply	pears on the cover sheet w	ith the correspondence address -	-				
WHICH - Extension after SIX - If NO pe - Failure to Any repl	RTENED STATUTORY PERIOD FOR REPLEVER IS LONGER, FROM THE MAILING DOWN of time may be available under the provisions of 37 CFR 1.1 (6) MONTHS from the mailing date of this communication. The provision of the maximum statutory period to reply within the set or extended period for reply will, by statute the provision of the provision of the provision of the mailing at the mailing a	DATE OF THIS COMMUNI 136(a). In no event, however, may a will apply and will expire SIX (6) MON e, cause the application to become Al	CATION. reply be timely filed NTHS from the mailing date of this communica BANDONED (35 U.S.C. § 133).					
Status								
1)⊠ R	esponsive to communication(s) filed on <u>15 J</u>	lune 2006.						
2a)⊠ TI	∑ This action is FINAL. 2b) This action is non-final.							
3)∏ Si	☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
cl	osed in accordance with the practice under	Ex parte Quayle, 1935 C.[D. 11, 453 O.G. 213.					
Disposition	of Claims							
4)⊠ C	aim(s) <u>3 and 5-12</u> is/are pending in the appl	lication.						
4a	4a) Of the above claim(s) is/are withdrawn from consideration.							
5)□ C	5) Claim(s) is/are allowed.							
	S)⊠ Claim(s) <u>3 and 5-12</u> is/are rejected.							
·	laim(s) is/are objected to.							
8)∏ C	aim(s) are subject to restriction and/o	or election requirement.						
Application	ı Papers							
9)∐ Th	e specification is objected to by the Examine	er.						
10)□ Th	10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.							
	oplicant may not request that any objection to the							
	eplacement drawing sheet(s) including the correct	•						
11) Th	e oath or declaration is objected to by the E	xaminer. Note the attache	d Office Action or form PTO-152	2.				
Priority un	der 35 U.S.C. § 119							
a) <u>□</u> 1.	knowledgment is made of a claim for foreign All b) Some * c) None of: Certified copies of the priority documen Certified copies of the priority documen	ts have been received.	- ,,,,,,					
3.	Copies of the certified copies of the price							
	application from the International Burea	<u> </u>	·					
* See	e the attached detailed Office action for a list	t of the certified copies not	received.					
Attachment(s)		_						
	f References Cited (PTO-892) f Draftsperson's Patent Drawing Review (PTO-948)	4) 🔲 Interview Paper No	Summary (PTO-413) (s)/Mail Date					
3) Informati	ion Disclosure Statement(s) (PTO-1449 or PTO/SB/08 o(s)/Mail Date		Informal Patent Application (PTO-152)					

DETAILED ACTION

Status of Claims

No claim amendments are made in view of applicant's response filed15 June
 Therefore, claims 3 and 5-12 remain under examination.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 3 and 5-12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bengston et al. US 6,692,583 B2(Bengston) in view of Tomlinson.

The teachings of Bengston in view of Tomlinson are discussed in paragraph 4 of the previous Non-Final Office Action mailed 19 April 2006. The rejection grounds for the instant claims are maintained for the same reasons as stated in paragraph 4 of the previous Non-Final Office Action.

4. Claims 3 and 5-12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Matsushima et al. US 4,017,334(Matsushima) in view of Oppen et al US 4,264,378(Oppen), and further in view of Tomlinson.

The teachings of Matsushima in view of Oppen and Tomlinson are discussed in paragraph 5 of the previous Non-Final Office Action mailed 19 April 2006. The rejection grounds for the instant claims are maintained for the same reasons as stated in paragraph 5 of the previous Non-Final Office Action.

Response to Arguments

5. Applicant's arguments filed 15 June 2006 have been fully considered but they are not persuasive.

In the remarks, applicant argues that the combination of Bengston and Tomlinson would produce toxic carcinogenic nitrosamines and provides two published abstract as evidence.

Both applicant's remark and the technical abstract provided by the applicant disclose that carcinogenic nitrosamines are products of tertiary amines and nitrous acid. However, neither Bengston nor Tomlinson uses nitrous acid or nitrite, which would produce nitrous acid in an aqueous solution, in their coating solutions. Bengston and Tomlinson only teach the use of nitrate or nitric acid in their coating solutions.

Therefore, the formation of carcinogenic nitrosamines should not have been a problem in the coating process of Bengston in view of Tomlinson. Therefore, applicant's argument is not persuasive.

Regarding applicant further arguments based on the specificity of Tomlinson's conversion coating solution, the examiner does not find applicant's arguments persuasive. Both Matsushima and Tomlinson's coating solutions comprises phosphate, fluoride and organophosphonic acid. Matsushima's coating solution further comprises titanium and Tomlinson's coating solution further comprises zirconium. Titanium and zirconium have very similar properties since they belong to the same metal group on the periodic table and are often used together or interchangeably in combination with fluoride to provide source of complex fluoride in a conversion coating solution. In

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addition, Tomlinson teaches that this type of coating solution can be applied to both aluminum and magnesium surfaces. Therefore, one of ordinary skill in the art would have found it obvious that the coating solutions of Matsushima and Tomlinson are very similar and would have applied the coating solution of Matsushima in view of Oppen to a magnesium surface with expected success in view of the teachings of Tomlinson.

Conclusion

6. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Lois Zheng whose telephone number is (571) 272-1248. The examiner can normally be reached on 8:30am - 5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Roy King can be reached on (571) 272-1244. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information

system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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ROY KING C SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 1700